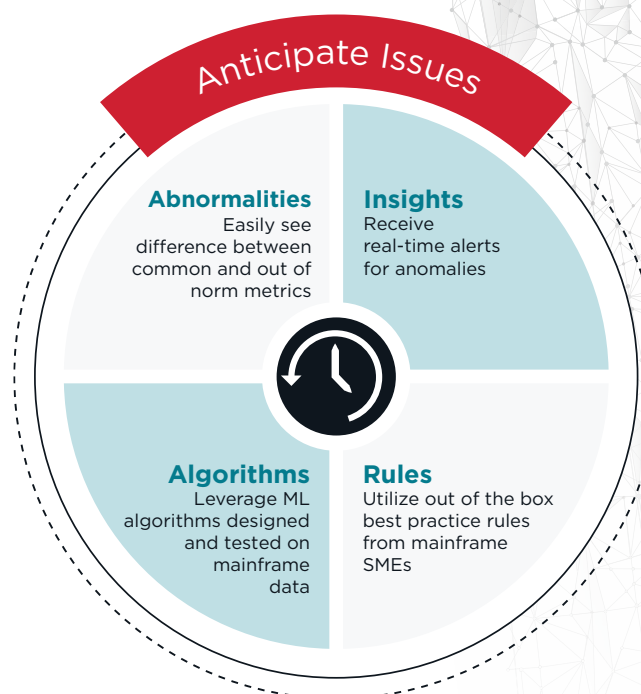**BROADCOM®**
MAINFRAME SOFTWARE

Understanding and Leveraging the Power of Broadcom's WatchTower™ Platform for Mainframe AIOps

Use Case: Anticipate Issues

Mainframe organizations face multiple challenges to achieving operational excellence. The exponential increase in operational data, application changes, and transaction volume is overwhelming. Silos impede the ability of IT teams to detect, diagnose, and act on issues in hybrid IT environments. And, of course, there is just too much pressure being placed on too few mainframe operational experts.

Into this complex situation, Broadcom's WatchTower Platform brings order and insight, efficiency and productivity. It helps you gain end-to-end visibility and management capabilities across domains and platforms. WatchTower provides you with true value for critical real-world use cases. Here, we take a closer look at the benefit of **anticipating issues** sooner through AIOps.

Anticipate Issues

Abnormalities
Easily see difference between common and out of norm metrics

Insights
Receive real-time alerts for anomalies

Algorithms
Leverage ML algorithms designed and tested on mainframe data

Rules
Utilize out of the box best practice rules from mainframe SMEs

Get Ahead of the Curve with Anomaly Analytics

The best kind of problem is one that never occurs. With Broadcom's WatchTower Platform, your team can discover potential issues sooner and fix them, or – even better – prevent them from happening in the first place. The key is detecting patterns as they start to emerge, rather than after the fact. This enables your team to tackle small sparks before they become five-alarm fires.

Broadcom's WatchTower Platform enables you to anticipate potential problems by assessing performance patterns so you can shift from reactive recovery to proactive resolution, avoiding expensive downtime and business impacts.

We increase your ability to anticipate issues through:

Abnormality Identification	Real-time Insights	Valuable Algorithms	Customized Rules
See clearly what values are common for a given metric and what is out of norm	Receive alerts for anomalies when they happen, along with the ability to view historical data	Leverage machine learning algorithms designed and user-tested on mainframe data	Use best practice rules specific to your mainframe built by mainframe experts

Anticipate Critical Issues Sooner through Intelligence

Broadcom's WatchTower Platform scours millions of change events, logs, metrics, and workload trends across environments, subsystems, and application components. Combining this data with embedded algorithms specifically trained for the mainframe enables corrective action to be taken proactively rather than reactively.

- Mine data for patterns and insights in near real-time using machine learning algorithms that adapt as your environment shifts.
- Generate meaningful and actionable insights by filtering out irrelevant data and deciphering normal versus abnormal behaviors.
- Resolve issues before the point of impact with correlated and visualized data from multiple subsystems.
- Tie insights into automation systems to correct potential problems without human intervention.

AIOps Anticipation in Action

At a large financial services company, the average cost per hour of a critical application failure is $500,000 to $1 million. Consequently, the savings were huge when WatchTower's advanced machine learning anomaly detection capabilities revealed a database issue that could trigger a major outage. AIOps identified the abnormal database activity a full two weeks before the standard report would have shown the problem. The database team therefore had plenty of time to correct the issue, preventing the outage from occurring and avoiding business and customer impact.

Begin Your AIOps Journey Today

Broadcom's WatchTower Platform blends augmented intelligence with human expertise to break down silos across your hybrid IT environment—including the mainframe—so you can avoid expensive downtime and business impacts. Visit mainframe.broadcom.com/watchtower to get started.

2 weeks

Identify problems hours sooner and automatically trigger corrective action to prevent business impact

About Us

Broadcom® Mainframe Software is a world leader in business-critical software that modernizes, optimizes, and protects the world's most complex hybrid environments. With its engineering-centered culture, Broadcom Software is building an extensive portfolio of industry-leading infrastructure and security software, including AIOps, Cybersecurity, Value Stream Management, DevOps, Mainframe, and Payment Security. Our mainframe software portfolio enables scalability, agility, and security for the largest global companies in the world.